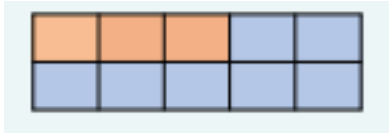


L.O. To find and make number bonds up to 20:

The numbers that you add in a number sentence can be written in any order:

Here is an example:



There are 4 pink blocks and 6 blue blocks. Altogether there are 10 blocks.

$$4 + 6 = 10$$

$$6 + 4 = 10$$

Challenge 1: Complete the number bond:

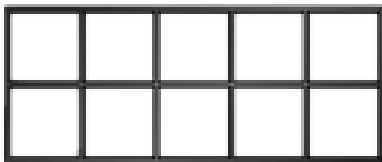


There are ___ red counters.

There are ___ blue counters.

Altogether there are ___ counters.

$$\underline{\quad} + \underline{\quad} = \underline{\quad} \quad \underline{\quad} + \underline{\quad} = \underline{\quad}$$



There are ___ red counters.

There are ___ blue counters.

Altogether there are ___ counters.

$$\underline{\quad} + \underline{\quad} = \underline{\quad} \quad \underline{\quad} + \underline{\quad} = \underline{\quad}$$



There are ___ red counters.

There are ___ blue counters.

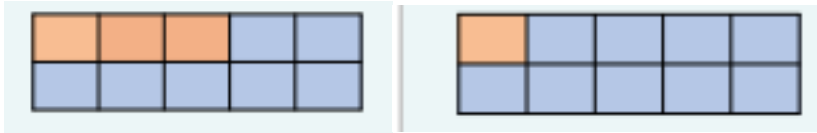
Altogether there are ___ counters.

$$\underline{\quad} + \underline{\quad} = \underline{\quad} \quad \underline{\quad} + \underline{\quad} = \underline{\quad}$$

L.O. To find and make number bonds up to 20:

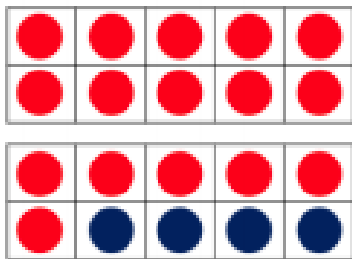
The numbers that you add in a number sentence can be written in any order:

Here is an example:



There are 4 pink blocks and 16 blue blocks. Altogether there are 20 blocks.
 $4 + 16 = 20$ $16 + 4 = 20$

Challenge 2: Complete the number bond:



There are ___ red counters.

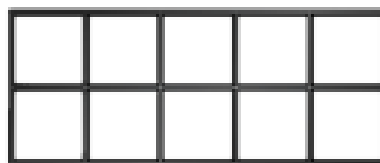
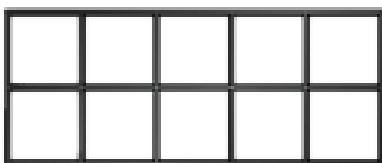
There are ___ blue counters.

Altogether there are ___ counters.

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

Now create two of your own:



There are ___ red counters.

There are ___ blue counters.

Altogether there are ___ counters.

$$\underline{\quad} + \underline{\quad} = \underline{\quad} \quad \underline{\quad} + \underline{\quad} = \underline{\quad}$$



There are ___ red counters.

There are ___ blue counters.

Altogether there are ___ counters.

$$\underline{\quad} + \underline{\quad} = \underline{\quad} \quad \underline{\quad} + \underline{\quad} = \underline{\quad}$$

L.O. To find and make number bonds up to 20;

Challenge 3: Solve this problems involving number bonds:

Use equipment to represent each of the calculations below.

What is the same?

What is different?

$$7 + 3 = 10$$


$$17 + 3 = 20$$

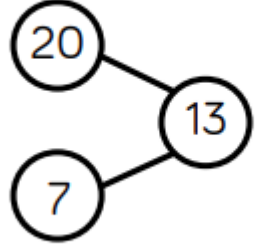
$$20 = 7 + 13$$

Explain your thinking.

L.O. To find and make number bonds up to 20;

Challenge 3: Solve this problem involving number bonds:

 Jack represents a number bond to 20 in the part whole model.



Can you spot his mistake?

The diagram shows a number bond with a whole of 20 and two parts, 13 and 7. Lines connect 20 to 13, and 13 to 7. This represents the equation $20 = 13 + 7$, which is incorrect because $13 + 7 = 20$ is false.